RESTRICTED CIRCULATION

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Estimated Actual Soil Moisture Deficits, 1941-1970, SOUTH-WEST

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Following the lines of Ag Mems 707-708 and using the same notation, the following multiple regressions were found:-

	L.Q.	Median	H.Q.
End of June	0.96	0.88	0.86
End of July	0.92	0.89	0.86
End of August	0.89	0.92	0.96
End of September	0.86*	0.92	0.87

* For annual average rainfalls under 900 mm

The formulae were:-

	L.Q.	Median	H.Q.
End of June	$P_3-0.033R_3-2.1$	$0.54P_3-0.01R_3-0.67$	$0.46P_3-0.014R_3+1.6$
End of July	$0.43P_4-0.026R_4+2.7$	$0.445P_4-0.0145R_4+0.9$	$0.23P_4-0.01R_4+3.33$
End of August	$1.02P_5-0.018R_5-8.75$	$0.36P_5-0.021R_5+3.85$	$0.29P_5-0.017R_5+4.5$
End of September	$0.03P_6-0.014R_6+5.1$ (Annual average under 900 m	$0.31P_6-0.017R_6+2.84$	$0.43P_6-0.017R_6+2.21$

The basic data were as follows:-

MID-WEST

Blandford	2.4	3.0	3.6	3.0	3.7	4.2	2.9	3.7	4.5	0.5	2.1	4.2
Marlborough	1.6	2.4	3.3	2.5	3.4	4.0	1.5	3.0	4.3	0.0	1.3	4.3
Bristol	0.8	2.3	2.8	2.2	2.9	3.7	1.0	2.6	3.6	0.0	1.3	3.7
Leckford	1.6	2.6	3.5	2.3	3.2	3.9	1.1	3.1	4.3	0.0	1.9	4.1
Bournemouth	2.2	3.0	3.7	2.8	4.0	4.3	2.9	3.8	4.8	0.7	2.5	4.1
Boscombe Down	2.1	2.6	3.8	3.0	3.7	4.1	2.5	3.8	4.4	1.1	3.0	4.3
Martock	2.4	2.7	3.7	3.2	3.6	4.2	3.2	3.8	4.4	1.2	2.9	4.1

FAR WEST

St.Austell	0.0	2.0	2.7	0.4	2.1	3.0	0.0	0.8	2.2	0.0	0.0	1.3
Plymouth	1.1	2.6	3.3	1.3	2.8	4.0	0.9	2.0	3.3	0.0	1.3	2.6
Hartland Pt	1.2	2.5	3.2	1.3	3.0	3.6	0.2	2.2	3.4	0.0	0.7	2.0
Newquay	2.1	2.5	3.6	2.0	3.3	4.0	1.7	3.1	4.0	0.8	1.4	3.8
Lizard	2.0	2.5	3.1	2.5	3.1	3.8	2.1	3.2	4.0	0.7	2.5	3.7
Exeter	2.2	2.9	3.7	2.9	4.0	4.4	2.9	4.1	4.3	1.5	3.2	4.2
Cannington	1.7	2.6	3.5	2.7	3.1	4.1	2.1	3.2	4.2	1.3	2.3	3.2

Any comments or suggestions on this paper should be referred to the author

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